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Diffractive Vector Meson Cross Sections from BK evolution with Impact Parameter

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In previous numerical work the solution to the BK evolution equation with impact parameter dependence was calculated with modeled confinement effects. This solution is used to calculate diffractive cross sections for the vector mesons J/Ψ , ρ , and ϕ . In order to bring the numerical results into agreement with HERA data modification to the photon wavefunction is necessary. This correction is discussed as well as effects on the ability to describe the F_2 structure function data.

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